From the. INTERNATIONAL SEARCHING AUTHORITY

To	:		01111		PCT		
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHOR (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) se	ee form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
International application No. PCT/JP2005/021634			International filing date (c 18.11.2005	lay/month/year)	Priority date (day/month/year) 19.11.2004		
International Patent Classification (IPC) or both national classification and IPC INV. B41J11/00 B41J2/17							
	icant NON KABUSHIK	(I KAISHA					
1.	This opinion contains indications relating to the following items:						
	🖾 Box No. I	Basis of the op	inion				
	☐ Box No. II	Priority					
	☐ Box No. III	Non-establishm	nent of opinion with rega	rd to novelty, inventiv	e step and industrial applicability		
	Box No. IV	Lack of unity of					
	⊠ Box No. V		ement under Rule 43 <i>bis.</i> ations and explanations		novelty, inventive step or industrial ement		
	☐ Box No. VI	Certain docume	ents cited				
	Box No. VII		in the international appl				
	☐ Box No. VIII	Certain observa	ations on the internation	al application			
2.	FURTHER ACTION						
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further option	ns, see Form PC1	T/ISA/220.				
3.	For further details	for further details, see notes to Form PCT/ISA/220.					

Name and mailing address of the ISA:

Date of completion of this opinion

Authorized Officer

European Patent Office - P.B. 5818 Patentia ag & form NI-2280 HV Rijswijk - Pays Bas
Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Joosting, T

Telephone No. +31 70 340-2849



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/JP2005/021634

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_	Box	No. I Basis of the opinion					
1	. With regard to the language, this opinion has been established on the basis of:						
	2	★ the international application in the language in which it was filed					
	□ ;	a translation of the international application into , which is the language of a translation furnished for th purposes of international search (Rules 12.3(a) and 23.1 (b)).					
2.	With nece	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:						
		a sequence listing					
		table(s) related to the sequence listing					
	b. format of material:						
		on paper					
		in electronic form					
	c. tim	c. time of filing/furnishing:					
		contained in the international application as filed.					
		filed together with the international application in electronic form.					
		furnished subsequently to this Authority for the purposes of search.					
3.	h	addition, in the case that more than one version or copy of a sequence listing and/or table relating them as been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/JP2005/021634

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-11

No: Claims

Inventive step (IS)

Yes: Claims

1-11

No: Claims

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

Re Item V.

- 1 Reference is made to the following documents: D1: US 2003/030692 A1 (UCHIDA KOTA) 13 February 2003 (2003-02-13)
- Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

An ink jet printing apparatus (M1001) for printing by ejecting ink containing a colorant from a print head (H1000) comprising:

at least one ink absorber (M2006), absorbing the ink discharged from the printhead.

From this, the subject-matter of independent claim 1 differs in that:

the absorber contains a coagulation inhibitor, that inhibits the coagulation of the colorant contained in the ink

- 2.1 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT)
 The problem to be solved by the present invention may be regarded as:
 Ink coagulates in the absorber, which becomes full and can no longer absorb
- 2.2 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:
 - No document shows an ink absorber with a coagulation inhibitor.
- 2.3 Claims 2-8 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document): see 2. above

From this, the subject-matter of independent claim 9 differs in that: the apparatus also has an application means for applying a coagulation inhibitor.

- 3.1 The subject-matter of claim 9 is therefore novel (Article 33(2) PCT)

 The problem to be solved by the present invention may be regarded as:

 Treat he ink absorber in such a way, that the colorant of the ink does not coagulate in the absorber
- 3.2 The solution to this problem proposed in claim 9 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:
 - No document shows an ink jet printing apparatus with an application means for applying a coagulation inhibitor
- Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parentheses applying to this document):

 An ink absorber that has been produced

 From this, the subject-matter of independent claim 10 differs in that:

 The method of production involves immersing the ink absorber in a liquid containing the coagulation inhibitor followed by drying the absorber
- 4.1 The subject-matter of claim 10 and 11 is therefore novel (Article 33(2) PCT)
 The problem to be solved by the present invention may be regarded as:
 Treating the ink absorber in such a way that ink does not coagulate in the absorber.
- 4.2 The solution to this problem proposed in claim 10 and 11 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:
 - No document shows a method of manufacturing an ink absorber with coagulation inhibiting properties